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Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5) | Date: 14-09-2022

Name of Work :"Construction of Additional Class Rooms at Yelahanka Government PU College in Kempegowda Ward 01"

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	Sri. B B Umesh
Customer Reference	BBMP/EE/YNK.D/EPMT-14/AG/07/2022-23
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	07-09-2022
Sample Type	Column Concrete(Building Work 1st Floor)
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M25/ 07 Days Compressive Strength
Date of Test	14-09-2022
Location	

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Maximum Load in	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	KN	N/mm^2	N/mm^2
1	Column	M25	07-09-2022	14-09-2022	150x150x150	22500	555.30	24.68	22.97
2	Column	M25	07-09-2022	14-09-2022	150x150x150	22500	500.25	22.23	
3	Column	M25	07-09-2022	14-09-2022	150x150x150	22500	495.00	22.00	

Remarks :

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Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5) | Date: 04-10-2022

Name of Work :"Construction of Additional Class Rooms at Yelahanka Government PU College in Kempegowda Ward 01"

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	Sri. B B Umesh
Customer Reference	BBMP/EE/YNK.D/EPMT-14/AG/07/2022-23
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	07-09-2022
Sample Type	Column Concrete(Building Work 1st Floor)
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M25/ 28 Days Compressive Strength
Date of Test	04-10-2022
Location	

Sl. No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Maximum Load in	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	KN	N/mm²	N/mm²
1	Column	M25	07-09-2022	04-10-2022	150x150x150	22500	589.90	26.22	26.01
2	Column	M25	07-09-2022	04-10-2022	150x150x150	22500	600.20	26.68	
3	Column	M25	07-09-2022	04-10-2022	150x150x150	22500	565.60	25.14	

Remarks :

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Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5) | Date: 20-09-2022

Name of Work :"Construction of Additional Class Rooms at Yelahanka Government PU College in Kempegowda Ward 01"

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	Sri. B B Umesh
Customer Reference	BBMP/EE/YNK.D/EPMT-14/AG/07/2022-23
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Receipt	14-09-2022
Sample Type	Buildings Lintel 1st Floor
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M25 / 07 Days Compressive Strength
Date of Test	20-09-2022
Location	

SI. No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Maximum Load in	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	KN	N/mm²	N/mm²
01	Lintel	M25	14-09-2022	20-09-2022	150x150x150	22500	510.00	22.67	22.09
02	Lintel	M25	14-09-2022	20-09-2022	150x150x150	22500	485.00	21.56	
03	Lintel	M25	14-09-2022	20-09-2022	150x150x150	22500	495.90	22.04	

Remarks:

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Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5) | Date: 11-10-2022

Name of Work :"Construction of Additional Class Rooms at Yelahanka Government PU College in Kempegowda Ward 01"

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	Sri. B B Umesh
Customer Reference	BBMP/EE/YNK.D/EPMT-14/AG/07/2022-23
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	14-09-2022
Sample Type	Buildings Lintel 1st floor
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M25/ 28 Days Compressive Strength
Date of Test	11-10-2022
Location	

Sl. No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Maximum Load in	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	KN	N/mm²	N/mm²
1	Lintel	M25	14-09-2022	11-10-2022	150x150x150	22500	577.85	25.68	25.83
2	Lintel	M25	14-09-2022	11-10-2022	150x150x150	22500	610.30	27.12	
3	Lintel	M25	14-09-2022	11-10-2022	150x150x150	22500	555.60	24.69	

Remarks:

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Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5) — Date: 03-10-2022

Name of Work :"Construction of Additional Class Rooms at Yelahanka Government PU College in Kempegowda Ward 01"

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	Sri. B B Umesh
Customer Reference	BBMP/EE/YNK.D/EPMT-14/AG/07/2022-23
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	26-09-2022
Sample Type	Slab Concrete(Building Work 1st Floor)
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M25/ 07 Days Compressive Strength
Date of Test	03-10-2022
Location	

Sl No	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Maximum Load in	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	KN	N/mm²	N/mm²
1	Building Roof Slab	M25	26-09-2022	03-10-2022	150x150x150	22500	495.00	22.00	22.95
2	Building Roof Slab	M25	26-09-2022	03-10-2022	150x150x150	22500	601.50	26.73	
3	Building Roof Slab	M25	26-09-2022	03-10-2022	150x150x150	22500	520.00	23.11	
4	Building Roof Slab	M25	26-09-2022	03-10-2022	150x150x150	22500	500.00	22.22	
5	Building Roof Slab	M25	26-09-2022	03-10-2022	150x150x150	22500	480.90	21.37	
6	Building Roof Slab	M25	26-09-2022	03-10-2022	150x150x150	22500	500.20	22.23	

Remarks:

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Test Report of Cement Concrete Cubes

[illegible] Method of tests for strength of Concrete C1.5) | Date: 23-10-2022

Name of Work : "Construction of Additional Class Rooms at Yelahanka Government PU College in Kempegowda Ward-07"

Client: Bruhat Bengaluru Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.

Contractor: M/s [illegible]

Customer Reference: BBMP/EE/YNK-2/EPWT-14/AG/07/2022-23

Source of Sample: Sample supplied by Agency

General Condition: Satisfactory

Date of Receipt: 26-09-2022

Nature of Test: Slab Concrete(Building Work 1st Floor)

Size of Specimen: 150x150x150 mm

Nature of Cube Age: M25/ 28 Days Compressive Strength

Date of Test: 27-10-2022

Location:

Sl. No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Maximum Load in	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	KN	N/mm^2	N/mm^2
1	Building Roof Slab	M25	26-09-2022	23-10-2022	150x150x150	22500	567.60	25.23	28.16
2	Building Roof Slab	M25	26-09-2022	23-10-2022	150x150x150	22500	680.50	30.24	
3	Building Roof Slab	M25	26-09-2022	23-10-2022	150x150x150	22500	652.40	29.00	

Remarks:

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Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5)	Date:	06-10-2022

Name of Work :"Construction of Additional Class Rooms at Yelahanka Government PU College in Kempegowda Ward 01"

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	Sri. B B Umesh
Customer Reference	BBMP/EE/YNK.D/EPMT-14/AG/07/2022-23
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	30-09-2022
Sample Type	Column Concrete(Building Work 2nd Floor)
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M25/ 07 Days Compressive Strength
Date of Test	06-10-2022
Location	

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Maximum Load in	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	KN	N/mm^2	N/mm^2
1	Column	M25	30-09-2022	06-10-2022	150x150x150	22500	499.00	22.18	23.13
2	Column	M25	30-09-2022	06-10-2022	150x150x150	22500	560.00	24.89	
3	Column	M25	30-09-2022	06-10-2022	150x150x150	22500	502.30	22.32	

Remarks :

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Test Report of Cement Concrete Cubes

[illegible] for strength of Concrete C1.5)	Date:	27-10-2022

Name of Work : "Construction of Additional Class Rooms at Yelahanka Government PU College in Kempegowda Ward (01"

Client : [illegible] Bengaluru Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.

Contractor : [illegible]

Contract Reference : [illegible]/EE/YNK/DEPMT-14/AG/07/2022-23

Source of Sample : Sample supplied by Agency

General Condition : Satisfactory

Date of Receipt : [illegible]

General Type : Column Concrete(Building Work 2nd Floor)

General Specification : 150x150x150 mm

General Remarks : [illegible] 28 Days Compressive Strength

Date of Test : 27-10-2022

Location :

Sl No	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Maximum Load in	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	KN	N/mm^2	N/mm^2
[illegible]	Column	M25	30-09-2022	27-10-2022	150x150x150	22500	766.50	34.07	28.47
[illegible]	Column	M25	30-09-2022	27-10-2022	150x150x150	22500	561.10	24.94	
[illegible]	Column	M25	30-09-2022	27-10-2022	150x150x150	22500	593.80	26.39	

Remarks :

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Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5) | Date: 14-10-2022

Name of Work :"Construction of Additional Class Rooms at Yelahanka Government PU College in Kempegowda Ward 01"

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	Sri. B B Umesh
Customer Reference	BBMP/EE/YNK.D/EPMT-14/AG/07/2022-23
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	08-10-2022
Sample Type	Buildings Lintel 2nd Floor
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M25/ 07 Days Compressive Strength
Date of Test	14-10-2022
Location	

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Maximum Load in	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	KN	N/mm^2	N/mm^2
1	Lintel	M25	08-10-2022	14-10-2022	150x150x150	22500	477.00	21.20	21.16
2	Lintel	M25	08-10-2022	14-10-2022	150x150x150	22500	501.00	22.27	
3	Lintel	M25	08-10-2022	14-10-2022	150x150x150	22500	450.00	20.00	

Remarks :

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Test Report of Fine Aggregate

IS: 383-2016, IS: 2386 (Part-1, 3)-1963 (Reaffirmed-2012) | Date: 28/08/2022

Name of Work :"Construction of Additional Class Rooms at Yelahanka Government PU College in Kempegowda Ward 01"

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	Sri B B Umesh
Customer Reference	BBMP/EE/YNK.D/EPMT-14/AG/07/2022-23
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Sample Type	Fine Aggregate
Date of Test	28/08/2022

Total wt of the sample (gms):			1000					
IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per IS: 383-2016			
					Grading Zone-1	Grading Zone-2	Grading Zone-3	Grading Zone-4
10	0	0	0.0	100	100	100	100	100
4.75	27	27	2.7	97.3	90-100	90-100	90-100	95-100
2.36	55	82	8.2	91.8	60-95	75-100	85-100	95-100
1.18	239	321	32.1	67.9	30-70	55-90	75-100	90100
600	205	526	52.6	47.4	15-34	35-59	60-79	80-100
300	203	729	72.9	27.1	5-20	8-30	12-40	15-50
150	191	920	92.0	8.0	0-10	0-10	0-10	0-15
PAN	80	1000	100.0	0.0	-	-	-	-

Result: The Tested Sample Conforms to Grading Zone-II

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Test Report of Coarse Aggregate

IS: 383-2016, IS: 2386 (Part-1, 3 & 4)-1963 (Reaffirmed-2012)	Date:	28/08/2022

Name of Work :"Construction of Additional Class Rooms at Yelahanka Government PU College in Kempegowda Ward 01"

Client:	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor:	Sri B B Umesh
Customer Reference	BBMP/EE/YNK.D/EPMT-14/AG/07/2022-23
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Sample Type	Coarse Aggregate
Date of Test	28/08/2022

Sieve Analysis (Particle Size Distribution) of 20mm Down Coarse Aggregate

Total weight of the sample (gms): 5000

IS Sieve Designation	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per IS: 383-2016
40	0	0	0.0	100	100
20	245	245	4.9	95.1	90-100
10	2560	2805	56.1	43.9	20-55
4.75	2033	4838	96.8	3.2	0-10
Pan	162	5000	100.0	0.0	-

Remarks :

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Test Report of Fine Aggregate

(IS: 383-2016, IS: 2386 (Part-1, 3))-1963	Date:	28/08/2022

Name of Work : "Construction of Additional Class Rooms at Yelahanka Government PU College in Kempegowda Ward 01"

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	Sri B B Umesh
Customer Reference	BBMP/EE/YNK.D/EPMT-14/AG/07/2022-23
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Sample Type	Coarse Aggregate
Date of Test	28/08/2022

Physical Properties

SI No.	Physical Properties	Result	Requirements as per IS: 386-2016
(i)	Flakiness Index (%)	13.20	Combined Flakiness and Elongation Index ahall nor exceed 40% for uncrushed and crushed
(ii)	Elongation Index (%)	12.6	
(iii)	Specific Gravity	2.66	-
(iv)	Bulk Density (Loose) (Kg/l)	1.54	-
(v)	Bulk Density (Composed) (Kg/l)	1.58	-
(vi)	Water Absorption (%)	0.22	-
(vii)	Aggregate Crushing Value (%)	24.50	Max 30% for Aggregates to be used in concrete for wearing surfaces, In case aggregate Crushing Value exceeds 30% then the test for 10% fines should be conducted for aggregate to be used in concrete oter tha for wearing surfaces
(viii)	Aggregate Impact Value (%)	22.80	Max 30% for aggregate to be used in concrete for wearing surfaces, 45% for aggregate to be used in concrete other than for wearing surface.

Remarks :

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Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for steel) — 28/08/2022

Name of Work :"Construction of Additional Class Rooms at Yelahanka Government PU College in Kempegowda Ward 01"

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka
Contractor	Sri B B Umesh
Customer Reference	BBMP/EE/YNK.D/EPMT-14/AG/07/2022-23
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Sample Type	HSD Steel Bars (3 sets)
Sample Type/Size	
Sample Grade/ Age	
Date of Test	28/08/2022
Location	

Sl No.	Identification Mark	Gopala Fe-550		Ramaraj Fe-550	IS 1786 Requirements
	TENSILE STRENGTH TEST				
1	DIAMETER (mm)	8.00	12.00	16.00	Fe - 550
2	AREA (mm²)	46.37	106.62	196.56	-
3	GAUGE LENGTH (mm)	38.47	58.34	79.21	-
4	YIELD LOAD (N)	25600.00	61400.00	110600	-
5	ULTIMATE LOAD (N)	31100.00	72000.00	131200	-
6	FINAL LENGTH (mm)	47.50	70.20	94.50	-
7	a. YIELD STRENGTH (N/mm²)	552.09	575.85	562.68	550 min.
8	b. ULTIMATE TENSILE STRENGTH (N/mm²)	670.70	675.27	667.48	a + 6% 585 min.
9	% ELONGATION	23.46	20.33	19.30	10 min.
10	FRACTURE	W.G.L	W.G.L	W.G.L	-
11	WEIGHT PER METER (Kg/m)	0.39	0.87	1.57	-
	ANGLE OF BEND - 180°				
1	RESULT	PASS	PASS	PASS	-
	REBEND TEST : ANGLE OF BEND - 135° ANGLE OF REBEND 157.5°				
1	RESULT	PASS	PASS	PASS	-

Remarks :

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Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5)	Date:	29-10-2022

Name of Work :"Construction of Additional Class Rooms at Yelahanka Government PU College in Kempegowda Ward 01"

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	Sri. B B Umesh
Customer Reference	BBMP/EE/YNK.D/EPMT-14/AG/07/2022-23
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Casting	23-10-2022
Sample Type	Slab Concrete(Building Work 2nd Floor)
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M25/ 07 Days Compressive Strength
Date of Test	29-10-2022
Location	

Sl. No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Maximum Load in	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	KN	N/mm^2	N/mm^2
1	Building Roof Slab	M25	23-10-2022	29-10-2022	150x150x150	22500	490.00	21.78	22.71
2	Building Roof Slab	M25	23-10-2022	29-10-2022	150x150x150	22500	530.20	23.56	
3	Building Roof Slab	M25	23-10-2022	29-10-2022	150x150x150	22500	512.40	22.77	

Remarks :

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